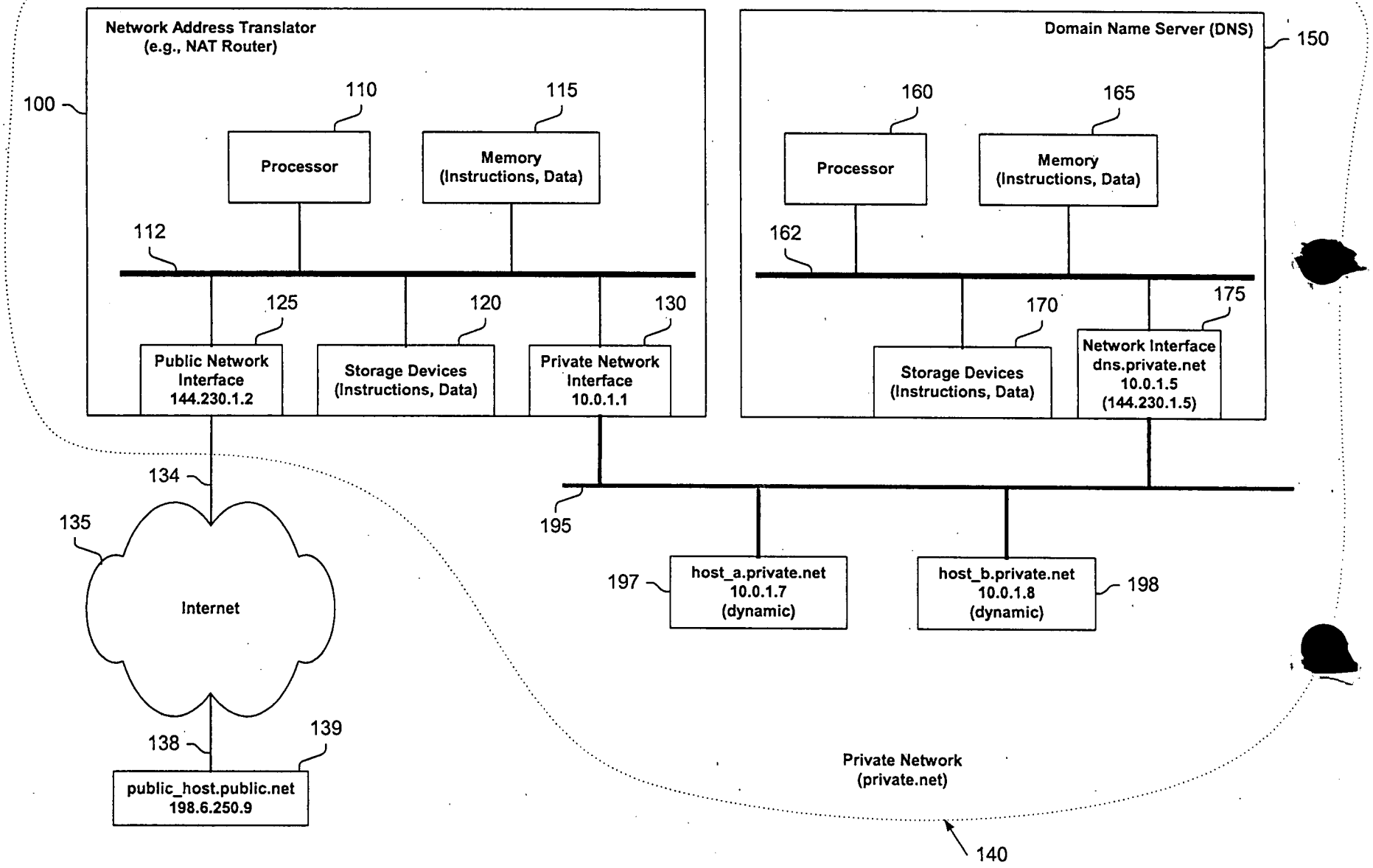

Fig. 1 - Operating Environment

Address Data Structure 200

201 Hostname	202 Private IP Address	203 Public IP Address	204 Lease Time	
dns.private.net	10.0.1.5	144.230.1.5	Permanent	← 210
host_a.private.net	10.0.1.7	144.230.1.10	1 hour	← 220
host_b.private.net	10.0.1.8			← 230

Fig. 2A - Address Data Structure

Address Data Structure 250

Hostname	Private IP Address	Public IP Address	Lease Time	
dns.private.net	10.0.1.5	144.230.1.5	Permanent	
host_a.private.net	10.0.1.7	144.230.1.10	1 hour	
host_b.private.net	10.0.1.8	**144.230.1.13**	**15 Minutes**	260

Fig. 2B - Updated Address Data Structure

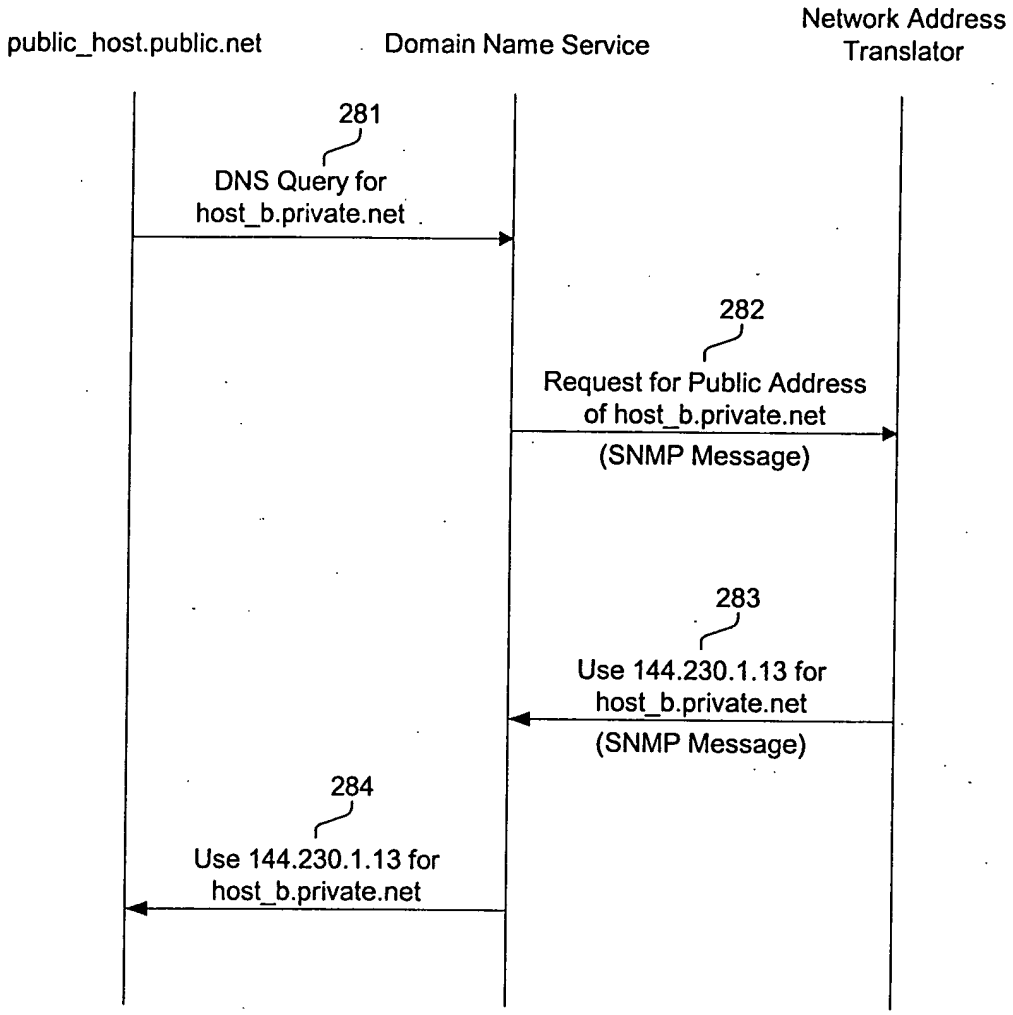

Fig. 2C - Public Network Address Request

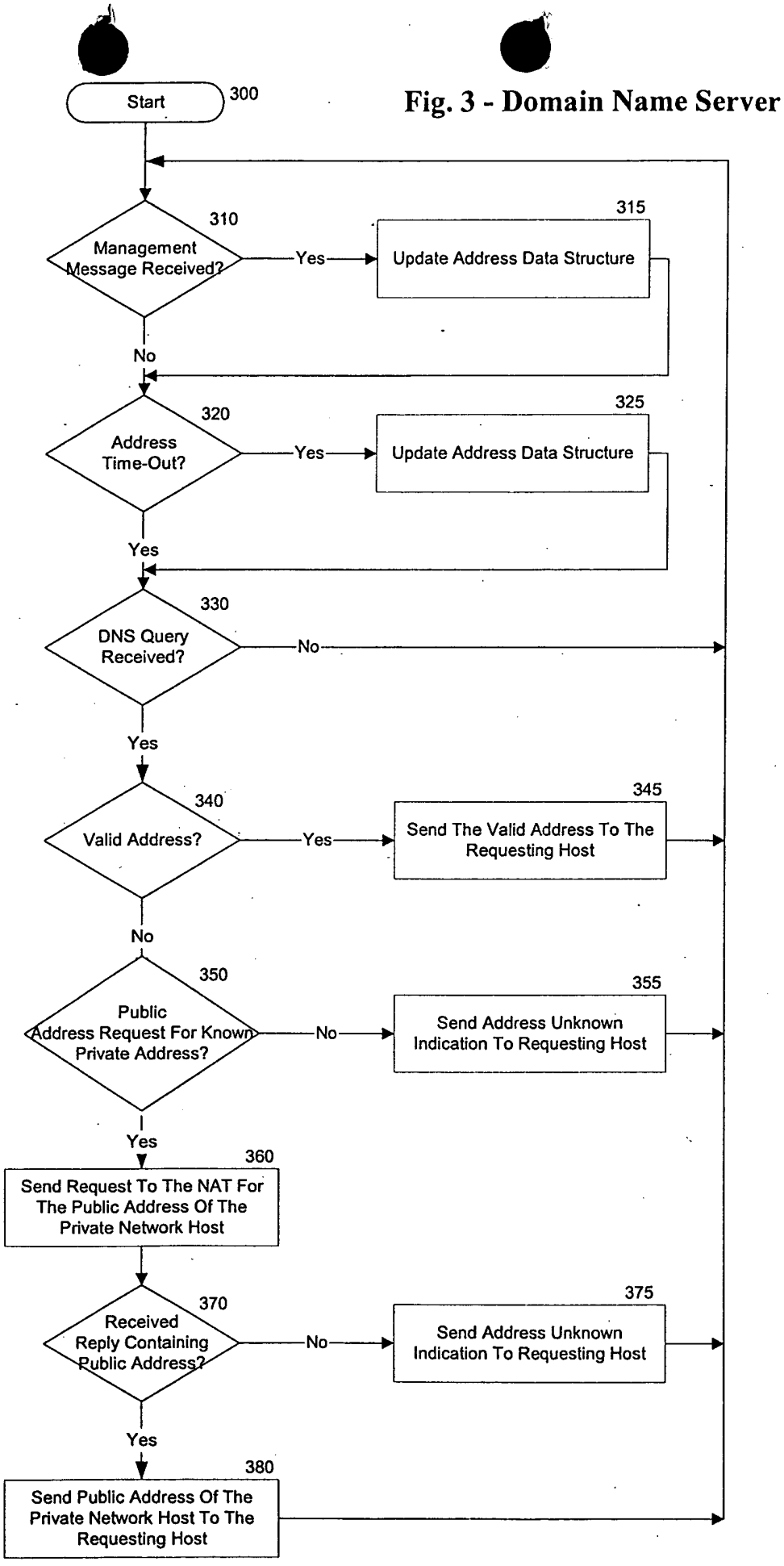

Fig. 3 - Domain Name Server

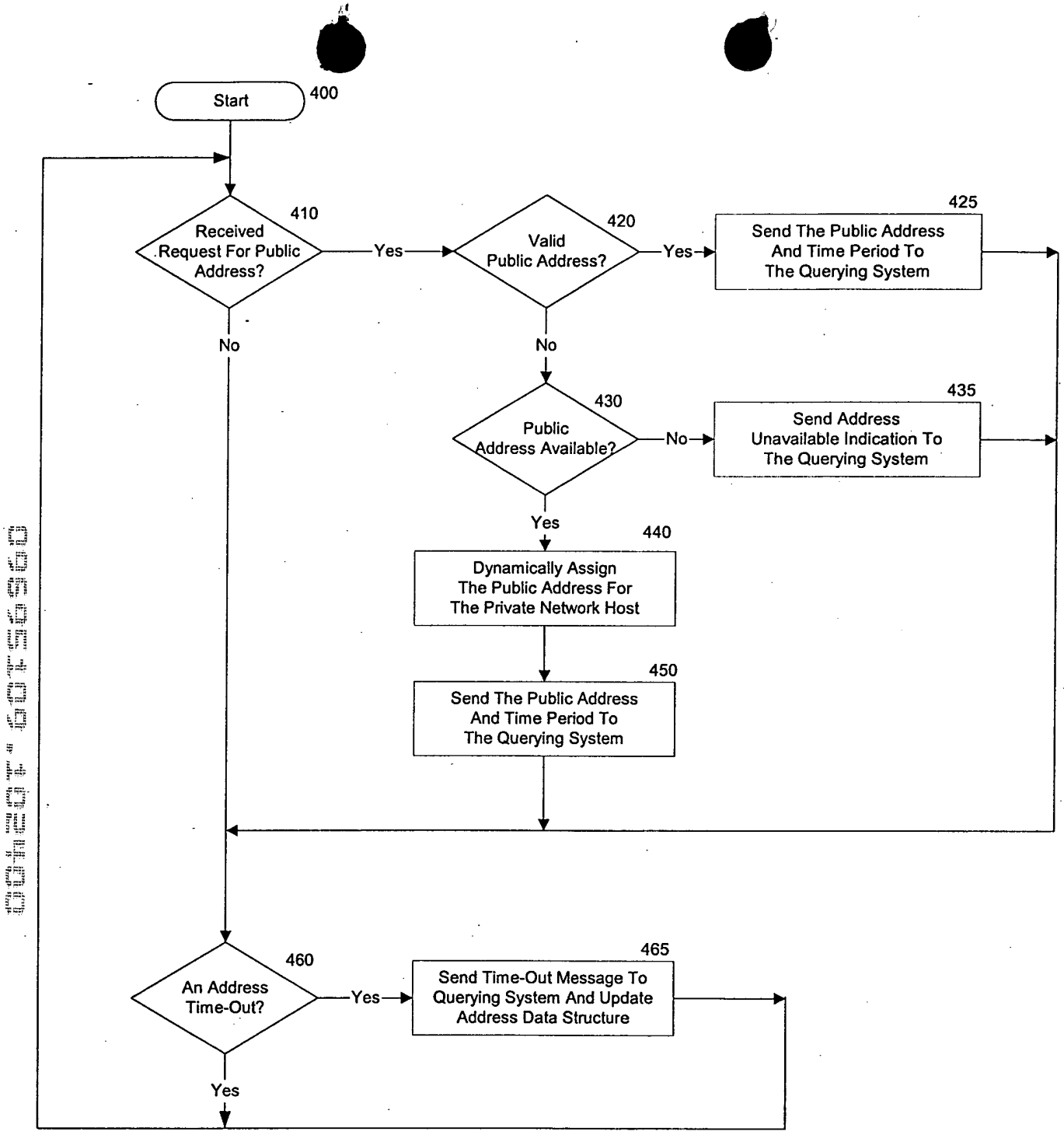

Fig. 4 - Network Address Translator